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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,712	02/05/2004	Yu-Chou Lee	250323-1050	5613
24504	7590	02/23/2005	EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 GALLERIA PARKWAY, NW STE 1750 ATLANTA, GA 30339-5948			OKEZIE, ESTHER O	
		ART UNIT		PAPER NUMBER
				3654

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/772,712	LEE ET AL.	
	Examiner Esther O. Okezie	Art Unit 3654	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on ____.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-6 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-6 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date .

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____ .

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thomas et al in view of White et al.
2. Regarding claims 1-6 Thomas et al. discloses an apparatus for gripping semiconductor substrates comprising a main body (platform 14) and pads allocated on the main body to load a substrate, wherein a material of the pad is identical or similar to that of the substrate. Thomas et al teaches the use of O-ring pads (24) are made of quartz for low friction, low contamination, and low damage levels of a substrate. These quartz pads would be suitable for carrying substrates made of glass or quartz which are well known in the art or any other substrate. However, Thomas et al. does not disclose a glass substrate. White et al. discloses a substrate transfer shuttle transferring large and small glass substrates. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the apparatus of Thomas et al. to support glass substrates as taught by White et al. as the use of glass or quartz substrates are well known in the art for use in numerous applications including liquid crystal display (LCD)

manufacturing, chemical vapor deposition (CVD), thin film transistor fabrication, physical vapor deposition (PVD), etc.

3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyata et al, JP363239839A in view of White et al.

4. Regarding claims 1-6 Miyata et al. discloses an apparatus for gripping semiconductor substrates comprising a main body (14) and pads allocated on the main body to load a substrate, wherein a material of the pad is identical or similar to that of the substrate. Miyata et al teaches the use of pads (17) are made of quartz which are suitable for carrying substrates made of glass or quartz which are well known in the art or any other substrate. However, it is unclear whether Miyata et al. discloses a glass substrate. White et al. discloses a substrate transfer shuttle transferring large and small glass substrates. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the apparatus of Miyata et al. to support glass substrates as taught by White et al. as the use of glass or quartz substrates are well known in the art for use in numerous applications including liquid crystal display (LCD) manufacturing, chemical vapor deposition (CVD), thin film transistor fabrication, physical vapor deposition (PVD), etc.

5. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bui et al in view of White et al.

6. Regarding claims 1-6 Bui et al. discloses an apparatus for gripping semiconductor substrates comprising a main body (100) and pads (lift pins 222) allocated on the main body to load a substrate, wherein a material of the pad is identical

or similar to that of the substrate. Thomas et al teaches the use of lift pins 222 for substrate support made of quartz which are suitable for carrying substrates made of glass or quartz which are well known in the art or any other substrate. However, Bui et al. does not disclose a glass substrate. White et al. discloses a substrate transfer shuttle transferring large and small glass substrates. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the apparatus of Bui et al. to support glass substrates as taught by White et al. as the use of glass or quartz substrates are well known in the art for use in numerous applications including liquid crystal display (LCD) manufacturing, chemical vapor deposition (CVD), thin film transistor fabrication, physical vapor deposition (PVD), etc.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Esther O. Okezie whose telephone number is (703) 305-0433. The examiner can normally be reached on Mon-Fri 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Katherine A Matecki can be reached on (703) 308-2688. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

eeo


KATHY MATECKI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600